

Fig. 1 The limit values of the magnetic saturation $\sigma \cdot 10^{-1}$ in $\mu\text{Tm}^3/\text{kg}$ and of the Co contents in % by weight (X). The upper line indicates the upper values and the lower line indicates the lower values of the magnetic saturation relative to the Co contents.

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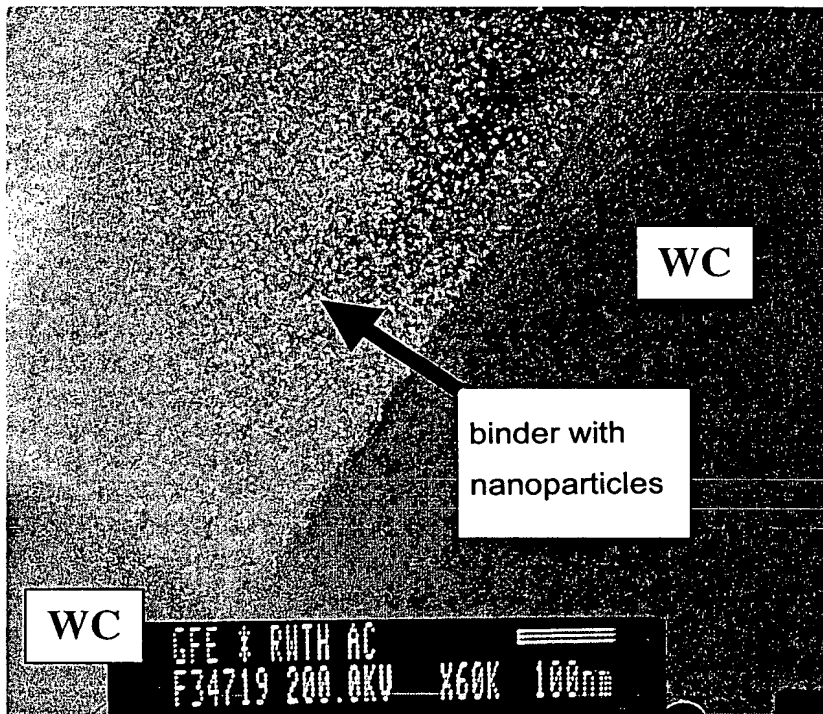


Fig. 2 The binder with nanoparticles.

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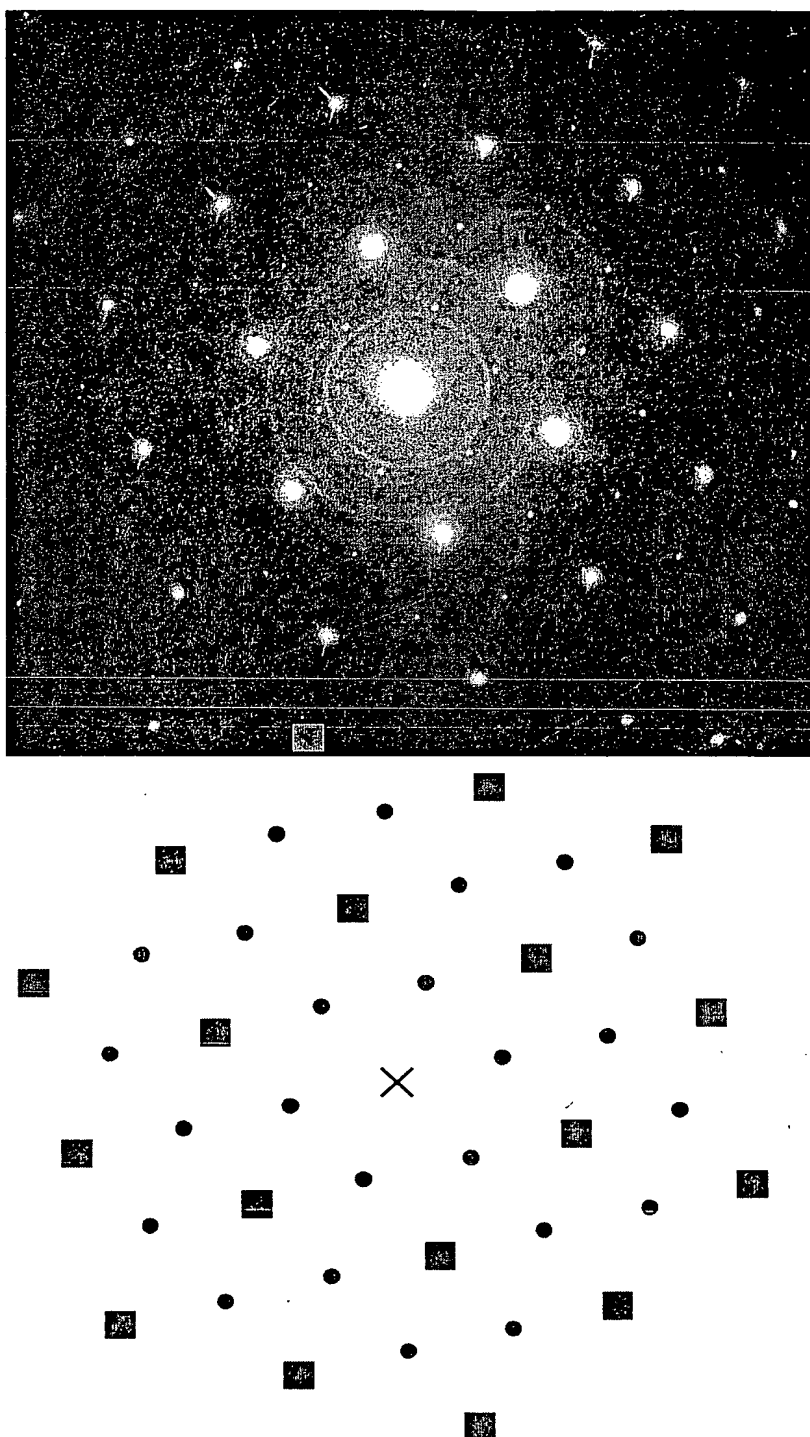


Fig. 3

Electron diffraction of the binder:
squares - reflexes of the fcc-cobalt
circles - reflexes of the nanoparticles
cross - center relative to the electron beam

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Chisel with conventional hard metal.



Chisel with new hard metal.

Fig. 4

Chisels worn during the field test under identical working conditions